

SEQUENCE LISTING

<110> PIERRE FABRE MEDICAMENT

<120> USE OF AN ENTEROBACTERIUM OmpA PROTEIN
ASSOCIATED WITH THE ELAGIGILTV PEPTIDE, FOR
TREATING MELANOMAS.

<130> D18441

<150> FR 99 01917

<151> 1999-02-17

<160> 4

<170> PatentIn Ver. 2.1

<210> 1

<211> 1035

<212> ADN

<213> Klebsiella pneumoniae

<220>

<221> exon

<222> (1)..(1032)

<220>

<221> intron

<222> (1033)..(1035)

<220>

<221> CDS

<222> (1)..(1032)

<400> 1

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1				5				10					15			
tat	gca	ggt	ggt	aaa	ctg	ggt	tgg	tcc	cag	tat	cac	gac	acc	ggt	ttc	96
Tyr	Ala	Gly	Gly	Lys	Leu	Gly	Trp	Ser	Gln	Tyr	His	Asp	Thr	Gly	Phe	
		20						25					30			
tac	ggt	aac	ggt	ttc	cag	aac	aac	aac	ggt	ccg	acc	cgt	aac	gat	cag	144
Tyr	Gly	Asn	Gly	Phe	Gln	Asn	Asn	Asn	Gly	Pro	Thr	Arg	Asn	Asp	Gln	
		35					40					45				
ctt	ggt	gct	ggt	gcg	ttc	ggt	ggt	tac	cag	ggt	aac	ccg	tac	ctc	ggt	192
Leu	Gly	Ala	Gly	Ala	Phe	Gly	Gly	Tyr	Gln	Val	Asn	Pro	Tyr	Leu	Gly	
	50					55					60					
ttc	gaa	atg	ggt	tat	gac	tgg	ctg	ggc	cgt	atg	gca	tat	aaa	ggc	agc	240
Phe	Glu	Met	Gly	Tyr	Asp	Trp	Leu	Gly	Arg	Met	Ala	Tyr	Lys	Gly	Ser	
65					70				75					80		
ggt	gac	aac	ggt	gct	ttc	aaa	gct	cag	ggc	ggt	cag	ctg	acc	gct	aaa	288
Val	Asp	Asn	Gly	Ala	Phe	Lys	Ala	Gln	Gly	Val	Gln	Leu	Thr	Ala	Lys	
			85					90					95			
ctg	ggt	tac	ccg	atc	act	gac	gat	ctg	gac	atc	tac	acc	cgt	ctg	ggc	336
Leu	Gly	Tyr	Pro	Ile	Thr	Asp	Asp	Leu	Asp	Ile	Tyr	Thr	Arg	Leu	Gly	

100	105	110	
ggc atg gtt tgg cgc gct gac tcc aaa ggc aac tac gct tct acc ggc Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly 115 120 125			384
gtt tcc cgt agc gaa cac gac act ggc gtt tcc cca gta ttt gct ggc Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly 130 135 140			432
ggc gta gag tgg gct gtt act cgt gac atc gct acc cgt ctg gaa tac Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr 145 150 155 160			480
cag tgg gtt aac aac atc ggc gac gcg ggc act gtg ggt acc cgt cct Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro 165 170 175			528
gat aac ggc atg ctg agc ctg ggc gtt tcc tac cgc ttc ggt cag gaa Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu 180 185 190			576
gat gct gca ccg gtt gtt gct ccg gct ccg gct ccg gct ccg gaa gtg Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Ala Pro Glu Val 195 200 205			624
gct acc aag cac ttc acc ctg aag tct gac gtt ctg ttc aac ttc aac Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn 210 215 220			672
aaa gct acc ctg aaa ccg gaa ggt cag cag gct ctg gat cag ctg tac Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr 225 230 235 240			720
act cag ctg agc aac atg gat ccg aaa gac ggt tcc gct gtt gtt ctg Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu 245 250 255			768
ggc tac acc gac cgc atc ggt tcc gaa gct tac aac cag cag ctg tct Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser 260 265 270			816
gag aaa cgt gct cag tcc gtt gtt gac tac ctg gtt gct aaa ggc atc Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile 275 280 285			864
ccg gct ggc aaa atc tcc gct cgc ggc atg ggt gaa tcc aac ccg gtt Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val 290 295 300			912
act ggc aac acc tgt gac aac gtg aaa gct cgc gct gcc ctg atc gat Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp 305 310 315 320			960
tgc ctg gct ccg gat cgt cgt gta gag atc gaa gtt aaa ggc tac aaa Cys Leu Ala Pro Asp Arg Arg Val Glu Ile Glu Val Lys Gly Tyr Lys 325 330 335			1008
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<210> 2
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 <212> PRT
 <213> *Klebsiella pneumoniae*

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		20					25						30		
Tyr	Gly	Asn	Gly	Phe	Gln	Asn	Asn	Asn	Gly	Pro	Thr	Arg	Asn	Asp	Gln
		35				40						45			
Leu	Gly	Ala	Gly	Ala	Phe	Gly	Gly	Tyr	Gln	Val	Asn	Pro	Tyr	Leu	Gly
	50					55					60				
Phe	Glu	Met	Gly	Tyr	Asp	Trp	Leu	Gly	Arg	Met	Ala	Tyr	Lys	Gly	Ser
65					70					75					80
Val	Asp	Asn	Gly	Ala	Phe	Lys	Ala	Gln	Gly	Val	Gln	Leu	Thr	Ala	Lys
				85					90					95	
Leu	Gly	Tyr	Pro	Ile	Thr	Asp	Asp	Leu	Asp	Ile	Tyr	Thr	Arg	Leu	Gly
			100					105					110		
Gly	Met	Val	Trp	Arg	Ala	Asp	Ser	Lys	Gly	Asn	Tyr	Ala	Ser	Thr	Gly
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Val	Ser	Arg	Ser	Glu	His	Asp	Thr	Gly	Val	Ser	Pro	Val	Phe	Ala	Gly
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Gly	Val	Glu	Trp	Ala	Val	Thr	Arg	Asp	Ile	Ala	Thr	Arg	Leu	Glu	Tyr
145					150					155					160
Gln	Trp	Val	Asn	Asn	Ile	Gly	Asp	Ala	Gly	Thr	Val	Gly	Thr	Arg	Pro
			165						170					175	
Asp	Asn	Gly	Met	Leu	Ser	Leu	Gly	Val	Ser	Tyr	Arg	Phe	Gly	Gln	Glu
		180					185						190		
Asp	Ala	Ala	Pro	Val	Val	Ala	Pro	Ala	Pro	Ala	Pro	Ala	Pro	Glu	Val
		195					200					205			
Ala	Thr	Lys	His	Phe	Thr	Leu	Lys	Ser	Asp	Val	Leu	Phe	Asn	Phe	Asn
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Lys	Ala	Thr	Leu	Lys	Pro	Glu	Gly	Gln	Gln	Ala	Leu	Asp	Gln	Leu	Tyr
225					230					235					240
Thr	Gln	Leu	Ser	Asn	Met	Asp	Pro	Lys	Asp	Gly	Ser	Ala	Val	Val	Leu
			245						250					255	
Gly	Tyr	Thr	Asp	Arg	Ile	Gly	Ser	Glu	Ala	Tyr	Asn	Gln	Gln	Leu	Ser
		260					265						270		
Glu	Lys	Arg	Ala	Gln	Ser	Val	Val	Asp	Tyr	Leu	Val	Ala	Lys	Gly	Ile
	275						280					285			

Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val
290 295 300

Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp
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Cys Leu Ala Pro Asp Arg Arg Val Glu Ile Glu Val Lys Gly Tyr Lys
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Glu Val Val Thr Gln Pro Ala Gly
340

<210> 3
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Peptide derived from the Mart-1/MelanA
antigen expressed by melanoma cells.

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Glu Leu Ala Gly Ile Gly Ile Leu Thr Val
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<210> 4
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Derivative of tyrosine-related protein 2 (TRP-2).

<400> 4
Val Tyr Asp Phe Phe Val Trp Leu
1 5